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Listing of the claims:

1-13. (cancelled)

14. (previously presented) A method for controlling transmission of data in a radio communication system having a hierarchical network architecture, comprising:

administering physical resources for a data transmission to user equipment by a first device at a first hierarchy within the hierarchical network architecture, the first device providing a physical radio connection interface to the user equipment; and

transmitting load information about a current load situation of the physical resources by the first device to a second device at a second hierarchy higher than the first hierarchy within the hierarchical network architecture for controlling a load distribution.

15. (previously presented) A method according to claim 14, wherein the load information includes load states for an area of the radio communication system supplied by the first device.

16. (previously presented) A method according to claim 15, wherein the load information includes load values averaged over time for at least one of defined operating parameters and signaling types of the radio communication system for radio data connections between user equipment and a third device of a lowest hierarchy.

17. (previously presented) A method according to claim 16, further comprising:

cell load reporting; and

checking on an assignment of user equipment to specific devices of the lowest hierarchy based on said cell load reporting.

18. (previously presented) A method according to claim 17, wherein the radio communication system is a cellular radio communication system, and

wherein said method further comprises checking on a handover option for at least one user equipment from a first cell of the radio communication system to a second cell of the radio communication system based on said cell load reporting.

19. (previously presented) A method according to claim 18, wherein said cell load

reporting includes transmissions depending on particular time events.

20. (previously presented) A method according to claim 19, wherein said cell load reporting includes periodic transmissions.

21. (previously presented) A method according to claim 18, wherein said cell load reporting includes transmissions depending on specific operational events of the radio communication system.

22. (previously presented) A method according to claim 21, wherein said cell load reporting is undertaken as a function of defined load states for the area of the radio communication system served by the first device.

23. (previously presented) A method according to claim 22, wherein said cell load reporting is undertaken as a function of defined threshold values for the load states.

24. (previously presented) A method according to claim 23, further comprising controlling a transmission of data packets in a packet data transmission system.

25. (previously presented) A radio communication system having a hierarchical network architecture with devices for control of transmission of data to user equipment and administration of physical resources, comprising:

at least one high level device at a first hierarchy within the hierarchical network architecture, controlling load distribution of the radio communication system; and

at least one low level device at a second hierarchy lower than the first hierarchy, transmitting to said high level device, information about a current load situation of the physical resources administered by said at least one low level device for a data transmission to the user equipment, said high level device controlling the load distribution based on the information, and said low level device providing a physical radio connection interface to the user equipment.

26. (previously presented) A radio communication system according to claim 25, wherein the radio communication system is a packet data transmission system.